Laboratory Glimpses

OPERATING SYSTEMS LAB

PYTHON AND STATISTICAL MODELING LABORATORY

DATA ANALYTICS LAB

DATABASE MANAGEMENT SYSTEMS LAB

BIG DATA PROCESSING LAB

OBJECT ORIENTED & PROCEDURE ORIENTED LABORATORY

ST. THOMAS INSTITUTE FOR SCIENCE & TECHNOLOGY

College Code: STI

Mar Chrysostom Nagar, Kattaikonam P.O.,Kazhakkoottam, Trivandrum 695 584.

ACHIEVERS

NEW PROGRAMME STARTING IN AUGUST 2023

PLACEMENTS

NEW PROGRAMME STARTING IN AUGUST 2023

Contact us

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For B.Tech 1st year provisional admissions register:
tinyurl.com/2023STISTBTECHADMISSIONS
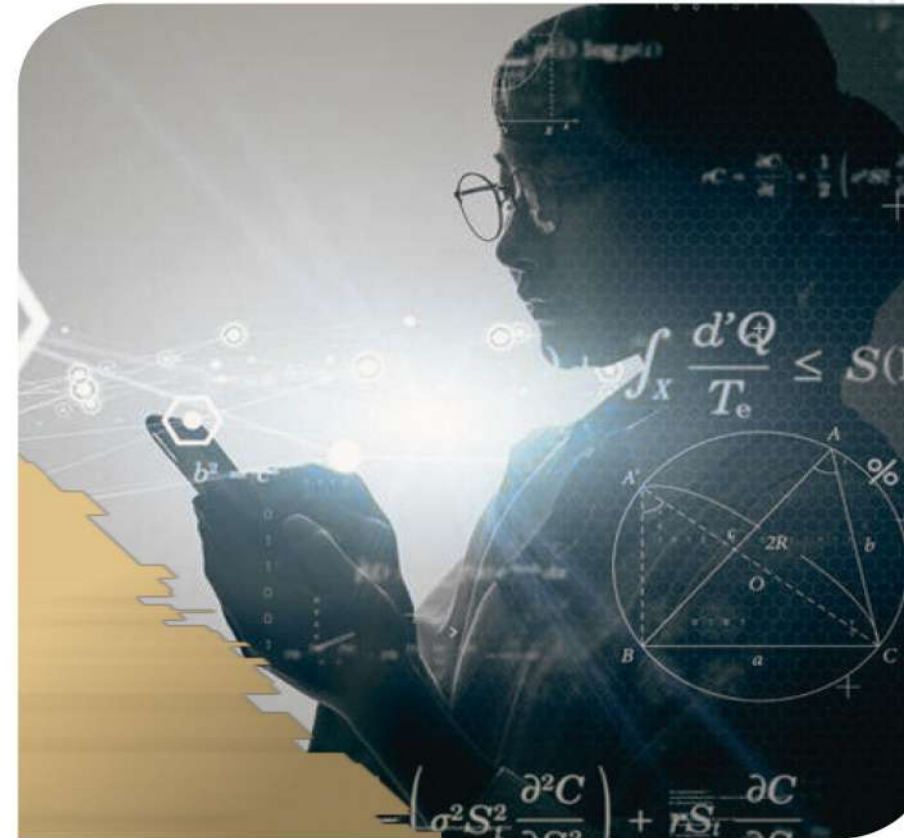
For B.Tech lateral entry provisional admissions register:
https://tinyurl.com/2023STISTLETADMISSIONS

 FB Page : St Thomas Institute for Science & Technology Instagram: stist.tvm

Department of Data Science
Affiliated to APJ Abdul Kalam Technological University, Trivandrum, Kerala
Approved by the All India Council for Technical Education (AICTE)

About the Institute

Set in a picturesque and modern campus of 20 acres, St. Thomas Institute for Science & Technology (College Code: STI), Trivandrum was established in the year 2010 by the Mar Thoma Church Educational Society, who are well known pioneers in the field of education since 1967. The college patron is His Grace The Most Rev. Dr. Theodosius Mar Thoma Metropolitan and the president is Rt Rev Dr Joseph Mar Barnabas Suffragan Metropolitan.

The institute is affiliated to APJ Abdul Kalam Technological University, Trivandrum, Kerala and imparts high quality, affordable education, training, R&D and values to students from all strata of the society. Many of its alumni are employed in leading positions in industry, academia and government in both India and abroad. It's also one of the best student centric campuses in India.

About the Department of Data Science

St. Thomas Institute for Science & Technology introduced the B.Tech course in Data Science in the year 2023, to train students in the rapidly growing field of Data Science. It comes as an additional programme under the Department of Computer Science and Engineering.

Over the past decade, the Department of Computer Science has successfully produced industry-ready computer engineering graduates with excellent academic credentials. The department has consistently attracted the best of engineering aspirants from all over the country. It has a team of well qualified and experienced faculty.

The department has 6 state-of-the-art laboratories like: Object & Procedure Oriented Programing Lab, Micro Processors Lab, Operating Systems Lab, Free & Open Source Software Lab, Database Systems Lab, Compiler Design lab to support the teaching and access to high end computing facilities. The department is also actively involved in various research & consultancy activities. In addition, the Centre of Excellence in Java and Python (CoE J&P) provides programming skill development with hands on training. The department actively promotes student projects in Machine Learning, Artificial intelligence, IoT & Data Mining with funding from IEDC & has signed MoU with Reflections Info Systems Pvt. Ltd. & others for collaborative academic projects.

About the Program & Its Objectives

B. Tech in Data Science is a relatively new, emerging multi-disciplinary area, concerned with the collection, preparation, analysis, visualization, management and preservation of large collections of information to enable companies to make smarter business decisions.

The course curriculum involves a blend of data inference, algorithm development, technology, business acumen and mathematics to analytically solve complex problems. Throughout the entire duration of the programme, the students are taught how to amalgamate business knowledge, tools and statistics to generate business values in creative ways.

Data Science programme objectives are designed in such a way to develop engineers will be able to:

- **PEO1:** Apply analysis, design, optimization and implementation skills in order to formulate and solve Data Science and multidisciplinary problems.
- **PEO2:** Take up higher studies, research & development and other creative efforts in science & technology.
- **PEO3:** Use their skills in an ethical & professional manner to raise the satisfaction level of stake holders.

Eligibility Criteria

For Admission to B.Tech First Year Engineering Course

- Candidates passed in Higher Secondary Examination, Kerala, or equivalent, with Physics & Mathematics as compulsory subjects & Chemistry as one of the optional subjects with 45% marks are eligible for admission. If candidate has not studied Chemistry, the marks of Computer Science will be considered. If a candidate has not studied Chemistry & Computer Science the marks of Biotechnology will be considered. In case, the candidate has not studied Chemistry, Computer Science & Biotechnology the marks of Biology will be considered.

- For SC/ST/SEBC &PwD quota candidates, minimum marks required for admission shall be 5% less than that of general category.

For Admission to B.Tech Lateral Entry (direct second year) Engineering Course

- Candidates passed three-year Diploma Examination in Engineering/Technology (two years in case of Lateral Entry Diploma)/D.Voc. from State Board of Technical Education/Universities or Institutions under Govt. of India, undergoing studies at AICTE approved institutions, with 45% marks in Aggregate (40% in the case of reserved category candidates), are eligible to apply.

- Candidates passed B.Sc. degree examination from an UGC recognized university with 45% marks in Aggregate (40% in the case of reserved category candidates), having passed 10+2 examination with mathematics as a subject are eligible to apply.

Features of the Department

1. Centre of Excellence in Java and Python (CoE J&P)
2. ICT based learner centric academic environment
3. Industry participation in teaching-learning
4. Beyond the curriculum teaching
5. Engineering design & innovation projects
6. Soft skill, life skill & interdisciplinary electives
7. Industrial standard laboratories
8. STIST online learning platform & flipped classroom
9. Remedial & extra classes for weak students.
10. Regular webinars, workshops, hands on training sessions & other technical events on recent technologies.
11. Job oriented additional courses
12. Project based learning, industrial visits & internships
13. Special sessions for competitive exams like GATE, UPSC & KPSC
14. Placement training facilities, personality & communication skills development programmes with 100% placement assistance
15. IEDC funded project opportunities, start up & incubation support
16. X-Coders department association, coordinates technical & extracurricular activities among students
17. Affordable transport facility, Wi-Fi campus, hostel facilities for boys and girls, sanitized, spacious & all-time favorite college canteen

Market & Career Potential

Particulars	Junior / Entry Level (0-3 Years Exp)	Middle Level (3-8 Years Exp)	Top Level/ Senior Level (8 + Years Exp)
Avg. Salary (INR) Per Annum	(4,00,000-12,00,000)	(6,00,00-16,00,000)	(10,00,000 +)
PSU & Government • IT Officer in public sector banks • National Informatics Center- Scientist • IT Officer • DRDO- Scientists • ISRO	Assistant System Engineer	Software Developer	Software Associate/Data Analyst
Private Sector (MNCs) • Data Scientist • Data Engineer • Business Intelligence Analyst • Marketing Analyst • Web Developer • Software Developer • Data Analyst • Software testing	Software Engineer	Associate Software Engineer-TL	Associate Consultant/Software Architect
Education Sector	Assistant Professor	Associate Professor, Professor	HoD, Dean, Director
Self Employment	Business Start ups- Own Technical Industry, Hardware Maintenance etc		